

2
3 **REMARKS**
4

5
6 The Examiner's thoughtful attention to this application is sincerely
7 appreciated.
8

9 **The Invention**
10

11 Applicant provides a **self oscillating** audio Class D amplifier that includes
12
13 (1) an output filter that provides an amplified **non-inverting** audio analog output signal, and
14 (2) a **non-inverting** closed loop negative feedback error amplifier circuit.
15

16 **The Prior Art**
17

18 The references of record do not appear to disclose a self oscillating audio
19 Class D amplifier.
20

21
22 The Myers et al. reference (U.S. 5,838,193) uses a triangle waveform
23 generator 25 and is not self oscillating. Col. 3, lines 14 to 17.
24

25 The Kaizer et al. reference (U.S. 4,649,565) uses a triangle waveform
26 generator 32 and is not self oscillating. Col. 9, lines 33 to 36; 43 to 49.
27
28

1 The Modgil et al. reference (U.S. 5,352,986) discloses a fixed frequency
2 amplifier that uses a PWM with a triangle wave at 430kHz as the reference. Col. 9, lines
3 26 to 51. This is not a self-oscillating Class D amplifier.
4

5 The Nelson reference (U.S. 5,521,549) discloses an amplifier provided with
6 a reference clock signal (22) and, again, a triangle wave generator (52). Col. 3, lines 29
7 to 32; Col. 5, lines 4 and 5. This is not a self oscillating audio Class D amplifier.
8
9

10 Accordingly, Applicant respectfully submits that the invention as set forth in
11 the amended Claims is not anticipated under 35 U.S.C. Section 102 nor rendered obvious
12 under 35 U.S.C. §103 by the references of record.
13
14

15 The Term "Non-inverting" in the Claims
16

17 Applicant respectfully submits that the term "non-inverting" in the claims is
18 appropriate because in the circuit illustrated in Fig. 2, the signal enters the positive terminal
19 and uses negative feedback to generate a non-inverting signal.
20
21

22 The Term "Self-Oscillating" in the Claims
23

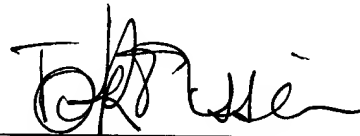
24 In response to the Examiner's objection to multiple use of the term "self-
25 oscillating" in the Claims, Applicant amended the Claims to eliminate "self-oscillating" from
26 the preamble of the Claims so that "self-oscillating" is recited only in the body of each
27 Claim.
28

1 The Specification

2
3 Applicant has, as required by the Examiner, inserted appropriate headings
4 in the Specification.
5

6
7 If the Examiner finds merit in the foregoing remarks and amendments, it is
8 believed the application is in condition for allowance and such action is earnestly solicited.
9

10 Respectfully submitted,

11
12 
13

14 TOD R. NISSLE, Reg. No. 29,241
15 TOD R. NISSLE, P.C.
16 P. O. Box 55630
17 Phoenix, Arizona 85078
18 Tel: 602-494-8700
19 Fax: 602-494-8707
20 E-mail: nissle@nissle.com

21 Attorney's Docket No. 995-P-3
22
23
24
25
26
27
28